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HP D2835A HP D2835S HP D2836A

HP Ultra VGA 1280

17-inch Color Displays 15.7 inch Viewable Image User's Guide

17-Zoll-Farbbildschirme 15.7 Zoll Bildanzeige Benutzerhandbuch

Moniteurs couleur 17 pouces Affichage 15,7 pouces Guide de l'utilisateur

Pantallas de color de 17 pulgadas 15.7 pulgadas de imagen visualizada Manual del Usuario *Léase esto primero*

> Video a colori da 17 pollici 15.7 effetivi per l'immagine Manuale utente

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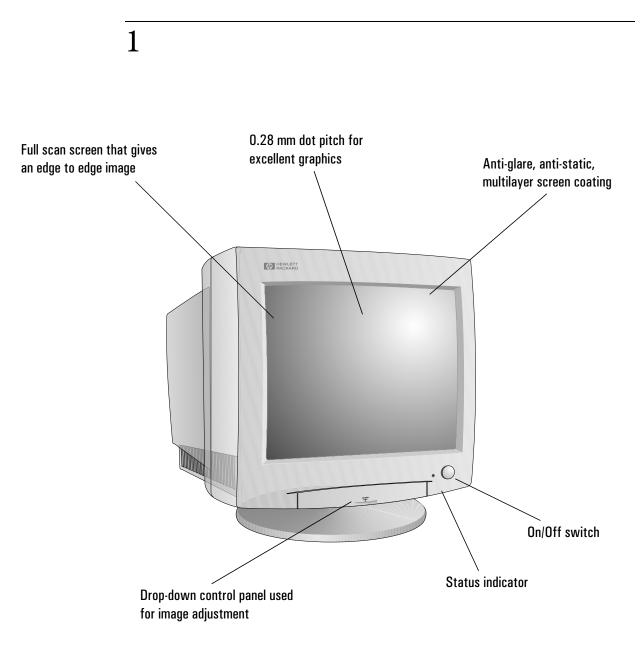
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Commercial Desktop Computing Division 38053 Grenoble Cedex 9 France

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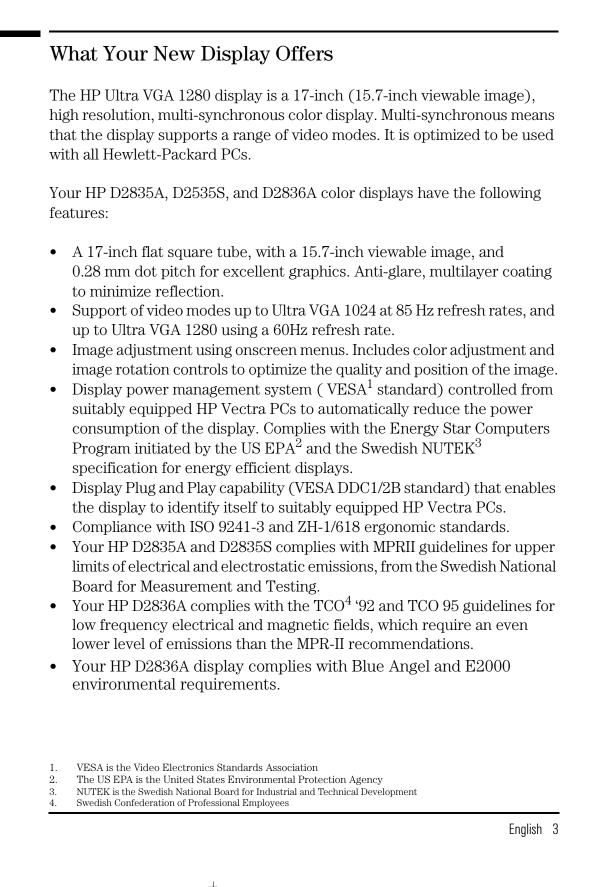
HP D2835A, HP D2835S, HP D2836A 17-inch Color Displays 15.7-inch Viewable Image

User's Guide

HP Ultra VGA 1280 User's Guide Important Safety Instructions

	Important Safety Instructions
	Before you plug in your new display, read these important safety instructions.
WARNING	Connect the display only to a grounded power outlet. Use the power cord supplied with the display or one with a properly grounded plug. Ensure the cable meets your country's standards for safety.
	This display operates on all power systems, including "IT" power systems. To completely disconnect power at the display, remove the power cord from the power outlet. Ensure that the power outlet is easily accessible.
	The display is quite heavy (the weight is shown in the technical specifications). We recommend you ask the assistance of a second person when lifting or moving it.
	USA and Canada
	If the power cord is not supplied with your display, select the proper power cord according to your national electric safety codes.
	• USA: use a UL Listed detachable power cord.
	• Canada: use a CSA certified detachable power cord.
	Si le cordon secteur n'est pas livré avec votre moniteur, utiliser un cordon secteur en accord avec votre code électrique national.
	• USA: utiliser un cordon secteur UL Liste.

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HP Ultra VGA 1280 User's Guide Setting Up Your Display

Setting Up Your Display

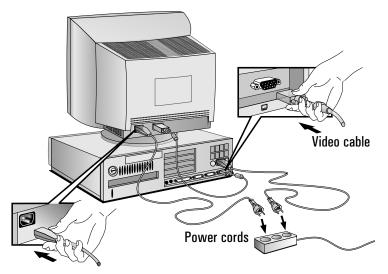
Where to Place the Display

Place your display on a flat sturdy surface.

Ensure the operating site is free from excessive heat, moisture, and sources of electromagnetic fields. Sources of electromagnetic fields include transformers, motors, and other displays.

Connecting the Cables

- 1 Before you connect any cables, refer to the safety instructions at the beginning of this manual and make sure your PC and display are switched off.
- 2 Connect the video cable (it has a 15-pin plug) to the video outlet on your PC. Tighten the thumbscrews on the plug.
- 3 Connect the power cord to the display.
- 4 Plug the power cord into the power outlet.



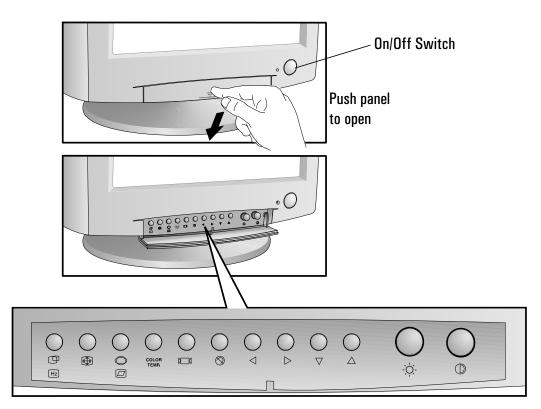
NOTE

The location of your PC's video outlet may be different to the one shown in the diagram. Refer to the manual that came with your PC, if necessary.

Using Your Display

The on/off switch \mathbb{O} is on the front of the display.

You can adjust the quality, position, size and shape of the displayed image using the drop-down control panel on the front of the display.



Control buttons

Open the control panel by pushing down on the panel cover, as indicated above.

Pressing a control button displays an onscreen menu that contains information about the display's current setting(s) for the option selected; for example, the current position or size of the viewable image.

Certain control buttons have dual functions when pressed twice. Refer to the information on the following pages for more details.

	HP Ultra VGA 1280 User's Guide Using Your Display
	Adjusting the Quality of the Displayed Image
D CONTRAST	To adjust the contrast (image white level), use this option. Contrast is the difference in brightness between the dark and light parts of the displayed image.
-़`Ċ- BRIGHTNESS	To adjust the overall picture brightness (image black level), use this option. Set so that the dark areas of the displayed image remain black.
🕲 DEGAUSS	To degauss the display, use this option. Degaussing keeps the display free from unwanted magnetism that can result in color impurity.
	Or,
	To revert to the default settings for <i>all</i> video modes, press this control button for at least five seconds.
CAUTION	This option deletes the user's preferred settings and reverts to the those preset at the factory. If this option is used, you will need to make any preferred user settings again.
color COLOR TEMP.	To adjust the tint of your display, press $\frac{\text{COLOR}}{\text{TEMP.}}$ and use the \blacktriangle and \checkmark adjustment controls to select between the two preset options.
	Adjusting the Size, Shape and Position of the Displayed Image
RECALL	To revert to the default settings of the <i>current</i> video mode, press this button for several seconds or until the light indicator changes to green.
	To adjust the horizontal or vertical size of the displayed image, press $\textcircled{\oplus}$ once, and use the \blacktriangleright , \blacktriangleleft , \blacktriangle and \blacktriangledown adjustment controls.
	To adjust the horizontal or vertical position of the displayed image, press \square once, and use the \blacktriangleright , \blacktriangleleft , \blacktriangle and \blacktriangledown adjustment controls.
	To adjust the displayed image if its vertical edges appear to bow in or out, press \bigcirc once and reshape using the \blacktriangleright and \blacktriangleleft adjustment controls.
	6 English

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HP Ultra VGA 1280 User's Guide Using Your Display



To adjust the displayed image if its vertical edges do not appear parallel, press \bigcirc once and select the *trapezoid* option using the adjustment controls. Use the \blacktriangle and \checkmark control buttons again to correct for any distortion.



To adjust the displayed image if its vertical edges appear tilted, press \bigcirc twice, and reshape using the \blacktriangleright and \triangleleft adjustment controls.

 $\bigcirc \bigcirc$

Depending on the orientation of your display, for example, whether it faces north or south, you may experience some rotation of the image. This effect is due to the influence of the earth magnetic field and is normal for all displays. To adjust the displayed image if it appears to be rotated, press \bigcirc twice and select the *tilt* option using the adjustment controls. Use the \blacktriangle and \checkmark adjustment controls again to re-orient the displayed image.

(Hz) SETTING INFORMATION To obtain information on the video modes, image refresh rates and screen resolutions supported by your display, press \bigcirc twice and use \blacktriangle and \blacktriangledown to scroll through the list.

Setting the Amount of Displayed Information

To set the amount of displayed information, change the *screen resolution* of your PC. The higher the screen resolution, the more information you can see on the screen. It is recommended that you use a resolution of 1024×768 at 85 Hz. This gives easy-to-read characters, a large amount of displayed information, and a flicker-free image.

You can make adjustments to the displayed image and they are automatically saved for the resolution you are using. For example, if you adjust your display when working in SVGA those settings are saved for SVGA. If you then work in VGA and change the image settings, they are saved for VGA. The next time you switch back to SVGA, your previous settings are used automatically.

To find out which resolutions are supported by your display, refer to "What Video Modes are Supported" on page 9. To change the screen resolution, please refer to the manual that came with your PC or your operating system documentation, if necessary.

Using Your Display

Your display has a Plug and Play capability (VESA DDC1/2B standard) that enables it to identify itself to suitably equipped HP Vectra PCs. This will automatically give you the best refresh rate for the resolution that you have set.

Minimizing Eye Strain

To avoid screen flicker and minimize eye strain, use the highest supported *image refresh rate* for the chosen resolution. It is recommended that you use a refresh rate of 85 Hz. The image refresh rate is the number of times per second that the image is refreshed.

To find out which image refresh rates are supported by your display, refer to "What Video Modes are Supported" on page 9. To set the image refresh rate (also known as the *vertical frequency*), refer to the manual that came with your PC or your operating system documentation, if necessary. If your PC supports Plug and Play, it will automatically select the best refresh rate for the screen resolution you have set.

Minimizing Energy Consumption

If your PC supports VESA display power management (available on many HP Vectra PCs), you can minimize the power consumed by the display. There are two power saving modes:

- Standby mode¹ (uses less than 15 W). In this mode, the display's front panel indicator light is amber/green blinking.
- Sleep mode² (uses less than 5 W). In this mode, the display's front panel indicator light is amber blinking.

To set these power saving modes, refer to the manual that came with your PC. If your screen is not displaying an image, check the front panel indicator light first — your display may be in a power saving mode.

- 1. Standby mode is activated when vertical sync is cut by the video controller.
- 2. Sleep mode is activated when both vertical and horizontal sync are cut by the video controller.
- 8 English

What Video Modes are Supported

Your display comes with the preset modes shown in the table below. It also supports intermediate video modes. With the intermediate modes, the displayed image may need to be optimized using the adjustment controls. All modes are non-interlaced.

Screen Resolution	Image Refresh Rate	Video Solution
640×400	70 Hz	VGA/DOS
640×480	75 Hz	Ergonomic VGA
640×480	85 Hz	Ergonomic VGA
800×600	75 Hz	Ergonomic Super VGA
800×600	85Hz	Ergonomic Super VGA
1024×768	70 Hz	Ergonomic Ultra VGA 1024
1024×768	75 Hz	Ergonomic Ultra VGA 1024
1024×768	85 Hz	Ergonomic Ultra VGA 1024
1280×1024	60 Hz	Ultra VGA 1280

CAUTION

Selecting a screen resolution/image refresh rate combination higher than 1280x1024 at 60Hz can damage your display.

Technical Specifications

	Size	17-inch flat screen/ 15.7-inch viewable image	
	Phosphorous Red, Green, Blue short persistence		
PICTURE TUBE	Dot pitch	0.28 mm	
	Face Plate	Anti-glare, multilayer coating	
	Video	0.660 Vp p analog RGB	
INPUT SIGNAL	Synchronization	Separated H/V (TTL level), H/V mixed (TTL level)	
INTERFACE	Input Connector	15-pin mini D-SUB	
	Horizontal	30 to 69 kHz	
SCANNING FREQUENCY	Vertical	50 to 160 Hz	
MAX. RESOLUTION (H $ imes$ V)	1280 ×1024 (60 Hz)		
WARM-UP TIME	30 minutes to reach optimum performance level		
PIXEL CLOCK	110 MHz		
	Standard size ¹ :306(H) x 230(V) mm		
IMAGE SIZE	Maximum size: 320(H) x 240(V) mm		
POWER SOURCE	AC 90 to 264 V, 47 to 63 Hz, 100W (max), less than 15 W in Standby mode, less than 5 W in Sleep mode, less than 1 W when switched off.		
	Temperature	5 °C to 40 °C (operating)	
OPERATING ENVIRONMENT	11.220	- 40 °C to + 65 °C (storage)	
	Humidity	5% RH through 90% RH (without condensation)	
CABINET DIMENSIONS	$425(H) \times 424(W) \times 444(D)$ mm (with stand)		
WEIGHT	19 kg		
	Tilt Angle	- 5° to +13°	
TILT/SWIVEL STAND	Swivel Angle	±45°	

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Technical Specifications

1. Use the standard image sizes to avoid distortion of the displayed image.

Care and Cleaning

Do not place anything on top of the display. Doing so may block the display vents and cause damage to the display due to overheating.

Do not let liquid get on or into the display.

To maximize screen life and prevent damage to the picture tube (such as *burned phosphor* due to leaving the same image on the screen for a long time), it is recommended that you:

- Use the display power management system (on HP Vectra PCs) or a screen saver program.
- Avoid setting contrast and brightness to their maximum levels for prolonged periods.
- If you do not have a power management system or a screen saver program, switch the display off or reduce the brightness and contrast to minimum levels when the display is not in use.

Your display has an anti-glare, anti-static screen coating. To prevent damage to the display screen's coating, use a regular household glass cleaner when cleaning the screen. To clean the screen:

- 1 Switch the display off and remove the power plug (pull the plug, not the cable).
- 2 Wet a soft cotton cloth with the cleaning solution and gently wipe the screen. Do not spray cleaner onto the screen because the cleaner may drip inside the display.
- 3 Dry with a clean, soft cotton cloth.

Do not use cleaning solutions containing fluoride, acids, or alkalis.

HP Ultra VGA 1280 User's Guide Environmental Information

Environmental Information

HP has a strong commitment toward the environment. Your HP display has been designed to respect the environment as much as possible.

HP can also take back your old display for recycling when it reaches the end of its useful life.

In fact, HP has a product take-back program in several countries. The collected equipment is sent to of HP's recycling facilities in Europe or the USA. As many parts as possible are reused. The remainder is recycled. Special care is taken for batteries and other potentially toxic substances, which are reduced to non-harmful components through a special chemical process. If you require more details about HP's product take-back program, contact your dealer or your nearest HP Sales Office.

The cathode ray tube used in this display does not contain cadmium.

Hardware Warranty

This is your HP Display Hardware Warranty Statement. Warranty terms may be different in your country. If so, your Authorized HP Dealer or Hewlett-Packard Sales and Service Office can give you details.

Model	Warranty Period	Service provided
Model D2835S	1 year	On-site service
Model D2835A Model D2836A	3 years unless original end-user customer has otherwise agreed to a shorter period of warranty at the time of purchase.	On-site service for 1st year, and return to an HP or repair-authorized reseller service-center for the following two years.

Limited Display Hardware Warranty

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Hardware Warranty

Hewlett-Packard (HP) warrants this display hardware product against defects in materials and workmanship for the applicable warranty period stated above, commencing from the date of purchase by you, the original end-user customer. If you return this display hardware product with a defect as defined above, during the warranty period, to an HP-authorized reseller or service center, HP will either, at its option, repair or replace the defective product with a new or equivalent-to-new unit of the same or equivalent model. Should HP be unable to repair or replace the product within a reasonable amount of time, your alternate exclusive remedy shall be a refund of the purchase price upon return of the product.

If you purchased this display hardware product for use with an HP Vectra personal computer, please refer to the terms and conditions of the HP Hardware Warranty statement provided with your HP Vectra personal computer, including limitations, your responsibilities and method for obtaining warranty service.

Limitation of Warranty

The above warranty shall not apply to defects resulting from: misuse (including "burned" screens); unauthorized modification; operation or storage outside the environmental specifications for this display product; in-transit damage; improper maintenance; or defects resulting from use of non-HP software, accessories, media, supplies, consumables, or such items not designed for use with this product.

HP MAKES NO OTHER EXPRESS WARRANTY, WHETHER WRITTEN OR ORAL, WITH RESPECT TO THIS PRODUCT. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY SET FORTH ABOVE.

Some states or provinces do not allow limitations on warranty, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state, or province to province.

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The foregoing limitation of liability shall not apply in the event that any HP product sold hereunder is determined by a court of competent jurisdiction to be defective and to have directly caused bodily injury, death, or property damage; provided, that in no event shall HP's liability for property damage exceed the greater of \$50,000 or the purchase price of the specific product that caused such damage.

Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

HP Ultra VGA 1280 User's Guide Regulatory Information

Regulatory Information

DECLARATION OF CONFORMITY according to ISO/IEC Guide 22 and EN 45014			
Manufacturer's Name:	HEWLETTPACKARD		
Manufacturer's Address:	5, Avenue Raymond Chanas 38320 Eybens, FRANCE		
declares, that the produ	ct:		
Product Name: Model Number:	Ultra VGA 1280 17-inch Display D2835A, D2835S, D2836A		
conforms to the following Product Speci	fications:		
<u>SAFETY</u>	International: IEC 950:1991 + A1 + A2 European: EN 60950:1992 + A1 + A2		
<u>EMC</u>	CISPR 22:1993 / EN 55022:1994 - Class B EN 50082-1:1992 IEC 801-2:1992 / prEN 55024-2:1992 - 4kV CD, 8 kV AD IEC 801-3:1984 - 3V/m IEC 801-4:1988 / prEN 55024-4:1992 - 1 kV Power lines		
	IEC 555-2:1982 + A1:1985 / EN 60555-2:1987 IEC 1000-3-3:1994 / EN 61000-3-3:1995		
	with complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC ive 93/68/EEC, and carries the CE-marking accordingly.		
	A		
Grenoble, April 1997.	Jean Marc JULIA Quality Manager		

Regulatory Information

Notice for the USA: FCC Statement

Federal Communications Commission (FCC) Radio

Frequency Interference Statement (USA Only)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protections against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try one of more of the following measures:

- Relocate the radio or television antenna.
- Move the computer away from the radio or television.
- Plug the computer into a different electrical outlet, so that the computer and the radio or television are on separate electrical circuits.
- Make sure that all your peripheral devices are also FCC Class B certified.
- Make sure you use only shielded cables to connect peripheral devices to your computer.
- Consult your computer dealer, Hewlett-Packard, or an experienced radio/television technician for help.

WARNING

Hewlett-Packard's system certification tests were conducted with HP-supported peripheral devices and HP shielded cables, such as those you received with your system. Cables used with this computer must be properly shielded to comply with the requirements of the FCC.

Changes or modifications not expressly approved by Hewlett-Packard could void the user's authority to operate the equipment.

X-Ray Radiation Notice

When operating, this product emits x-rays; however, it is well shielded and meets the safety and health requirements of various countries, such as the Radiation Act of Germany and the Radiation Control for Health and Safety Act of the United States.

Radiation emitted by this product is less than 0.1 mR/hr (1uSv/hr) at a distance of 10 centimeters from the surface of the cathode ray tube. The x-ray radiation primarily depends on the characteristics of the cathode ray tube and its associated low voltage and high voltage circuitry. Internal controls have been adjusted to ensure safe operation. Only qualified personnel should perform any internal adjustments as specified in the service manual for this product.

Replace the cathode ray tube with an identical CRT only.

General Notice

The HP D2835A, D2835S, and D2836A 17-inch Color Displays have been tested according to MPR 1990:8 for Emission properties and meets the guidelines as given by MPR 1990:10 (2.01 - 2.04).

HP Ultra VGA 1280 User's Guide Regulatory Information

Notice for Japan

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Notice for Canada

This Class "B" digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe B respecte toutes les exigences du règlement sur le matériel brouilleur du Canada.

Notice for China

重要的安全指令

在安装屏幕时,要注意如下几顶安全措施:

屏幕的电缆只可接上有地线的插头,请使用 屏幕原有的电缆或另一接地电缆。并应检查 电缆是否符合本国的安全准则。

屏幕电缆可接上各种电源,包括"IT"系统。 至于完全断止屏幕的电源,只需将电缆拔离 插头。插头应安装在易接近的地方。

在搬抬或移动屏幕时,应由两人抬动,因屏幕比较重(其重量写在技术规格上)。

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